Title (en)

SURGICAL SYSTEMS FOR GENERATING THREE DIMENSIONAL CONSTRUCTS OF ANATOMICAL ORGANS AND COUPLING IDENTIFIED ANATOMICAL STRUCTURES THERETO

Title (de)

CHIRURGISCHE SYSTEME ZUR ERZEUGUNG DREIDIMENSIONALER KONSTRUKTE VON ANATOMISCHEN ORGANEN UND ZUR KOPPLUNG DER IDENTIFIZIERTEN ANATOMISCHEN STRUKTUREN DARAN

Title (fr)

SYSTÈMES CHIRURGICAUX POUR LA GÉNÉRATION DE CONSTRUCTIONS EN TROIS DIMENSIONS D'ORGANES ANATOMIQUES ET COUPLAGE DE STRUCTURES ANATOMIQUES IDENTIFIÉES ASSOCIÉES

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Application

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Abstract (en)

A surgical system for use in a surgical procedure is disclosed. The surgical system includes at least one imaging device and a control circuit configured to identify an anatomical organ targeted by the surgical procedure, generate a virtual three-dimensional (3D) construct of at least a portion of the anatomical organ based on visualization data from the at least one imaging device, identify anatomical structures relevant to the surgical procedure from the visualization data from the at least one imaging device, couple the anatomical structures to the virtual 3D construct, and overlay onto the virtual 3D construct a layout plan of the surgical procedure determined based on the anatomical structures.

IPC 8 full level

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